

AMENDMENTS TO THE CLAIMS

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of the Claims:

Claim 1-16 (canceled).

Claim 17 (currently amended): A service vehicle for performing an in-space operation on a selected target spacecraft, comprising:

a communication module having at least one of a transmission and a receiving characteristic configurable in order to meet at least one of a transmission and a receiving parameter of the selected targeted spacecraft;~~and~~

a control module configured to provide a setpoint for an output power of the communication module.

Claim 18 (previously presented): The service vehicle as recited in claim 17, wherein the communication module includes a transmitter.

Claim 19 (previously presented): The service vehicle as recited in claim 17, wherein the communication module includes a configurable receiver.

Claim 20 (currently amended): The service vehicle as recited in claim 19, wherein the receiver has a ~~wording~~working frequency that is adjustable in so as to enable ~~to~~ communication with a telemetry channel of the selected target spacecraft.

Claim 21 (canceled).

Claim 22 (currently amended): The service vehicle as recited in claim 21, further comprising a first position sensor connected to an input portion of the control module, the first position sensor delivering a set of data indicative of a current position of the service vehicle.

Claim 23 (previously presented): The service vehicle as recited in claim 22, further comprising a second position sensor connected to the input portion of the control module, the second position sensor delivering a set of data indicative of a current position of the target spacecraft.

Claim 24 (currently amended): The service vehicle as recited in claim 21, further comprising an orientation sensor connected to the ~~input~~input portion of the control module, the orientation sensor delivering a set of data indicative of a current orientation of the target spacecraft relative to the service vehicle.

Claim 25 (previously presented): The service vehicle as recited in claim 17, further comprising a docking system having a hollow first axle and a second axle moveably disposed inside the first axle, the second axle carrying an activateable arrow tip.

Claim 26 (previously presented): The service vehicle as recited in claim 17, further comprising an identification device configured to identifying said target spacecraft.

Claim 27 (currently amended): A servicing system for providing in-space service operations to a selected target spacecraft, comprising:

a service vehicle that includes a communication module having at least one of a transmission and a receiving characteristic configurable in order to meet at least one of a transmission and a receiving parameter of the selected targeted spacecraft;

a control module configured to provide a setpoint for an output power of the communication module; and

a ground control module for delivering operational commands to the service vehicle.

Claim 28 (previously presented): The servicing system as recited in claim 27, wherein the ground control module is configured to receive data from the service vehicle using the target spacecraft as a relay station for signals emitted from the service vehicle.

Claim 29 (previously presented): The servicing system as recited in claim 27, further comprising an orbit-based utility base for said service vehicle.

Claim 30 (previously presented): The servicing system as recited in claim 27, further comprising a relay module for forwarding transmitted signals to the service vehicle.

Claim 31 (currently amended): The servicing system as recited in claim 27, ~~wherein~~ further comprising an engine module attachable to at least one of a service agent, the service vehicle, and the target spacecraft.

Claim 32 (currently amended): A method for in-space servicing of a selected target space-craft, the method comprising:

performing an in-space operation on the target spacecraft using a service vehicle having a communication module that includes at least one of a transmission and a receiving characteristic configurable in order to meet at least one of a transmission and a receiving parameter of the selected targeted spacecraft; and having a control module configured to provide a setpoint for an output power of the communication module; and

and-relaying command signals to the service vehicle using a telemetry channel disposed between a ground control module and the target spacecraft.